

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-023403

(43)Date of publication of application : 21.01.1997

(51)Int.Cl.

H04N 5/92

G11B 20/12

G11B 27/10

(21)Application number : 07-169103

(71)Applicant : PIONEER ELECTRON CORP

(22)Date of filing : 04.07.1995

(72)Inventor : TOZAKI AKIHIRO
NAKAMURA HIROSHI

(54) INFORMATION RECORDING DEVICE AND INFORMATION REPRODUCING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To multiplex a time code on a video signal without giving a burden on a device and to display accurate lapse time even in the case of interactive recording information.

SOLUTION: The time code shows lapse time in partial recording information at the time of reproducing partial recording information obtained by dividing interactive recording information by the content type. Reproduced additional information SJ including the time code SJC which is reset at the head of partial recording information and time base information corresponding to lapse time are multiplexed at every GOP in video information in recording information so as to be recorded. Structure recording information including a start address in recording information of partial recording information and reproduction time of partial recording information its recorded in an area different from an area where partial recording information and reproduced additional information are recorded. At the time of reproduction, the video signal and the time code are multiplexed with time base information (PTS) SJC as a reference (mediation). Furthermore, a system accesses to a desired reproduction position based on structure additional information.

SJ-再生時間情報

field	No. of bits	value
SJP--packet_start_code_prefix	24	00000'h
SJS--stream_id	8	8Fh
SJL--PES_packet_length	16	
SJT--PTS_of_applied_video	32	
SJC--CELTC	32	

CELTC--PSJC

b21	b20	b19	b18	b17	b16	b15	b14
フレーム(1000)				フレーム(1000)			
b23	b22	b21	b20	b19	b18	b17	b16
フレーム(1000)				フレーム(1000)			
b15	b14	b13	b12	b11	b10	b9	b8
フレーム(1000)				フレーム(1000)			
b7	b6	b5	b4	b3	b2	b1	b0
フレーム(1000)				フレーム(1000)			